2012 HIGH VOLTAGE DESIGN WORKSHOP

Attend On-site or by Webcast

A High Voltage design workshop to be conducted by Steven Battel combining lessons of theoretical and practical design concepts with experience and knowledge from many successful Flight Projects.

There is **no cost** for participation. Registration is necessary to send participants Webcast and latest workshop information.



2012 High Voltage Design Workshop: Part 2

Lecturer: Steve Battel

Steve Battel is known within the space community for his engineering work related to high voltage systems and precision analog electronics used in space science instrumentation. He is a graduate of the University of Michigan and has 35 years experience as an engineer and manager for NASA and DoD projects. He has developed 58 different high voltage designs for space applications with more than 380 units built and 150 units successfully flown.

President of Battel Engineering since 1990, Steve has also held engineering and management positions at the University of Michigan Space Physics Research Laboratory, Lockheed Palo Alto Research Laboratory, University of California, Berkeley Space Sciences Laboratory and the University of Arizona Lunar and Planetary Laboratory. At UC Berkeley, Steve was the Project Manager for the Extreme Ultraviolet Explorer (EUVE).

Recent hardware projects include flight high voltage and other instrument electronics for the Mars-Phoenix TEGA-MS sensor, the Mars Science Laboratory SAM Instrument and the AIM-CIP camera system. Current hardware development work includes high voltage and low voltage flight electronic systems for the LADEE and MAVEN missions, prototype electronics for the ExoMars MOMA instrument and developmental high voltage systems for space tether, x-ray spectroscopy and miniaturized ion propulsion applications.

Past development projects reach back to Dynamics Explorer and Galileo including the high voltage and low voltage power systems for the MCP cameras used on the SOHO, FUSE, IMAGE, GALEX and HST-COS missions. Steve also developed the low-noise gyroscope power electronics for the GP-B program along with multiple high voltage and lower voltage electronic systems for the Rosetta, XTE, Cassini and Huygens Probe missions.

Electrical Engineering Division
Code 560, NASA GSFC

DATES: OCT 22-23, 2012 **TIME**: 7:30 (PDT) AM Start

PLACE: Hameetman Auditorium
Cahill Physics and Astronomy BLDG
1216 California Boulevard

Located on the campus of California Institute of Technology

DAY 1

- GROUNDWORK AND FEEDBACK
- HIGH POWER KLYSTRON HV DESIGN
- FAST HV MODULATOR DESIGN
- FUSE/HST MCP HV DESIGN
- ➤ RECEPTION (5:30 7 PM)

DAY 2

- CHEMIN HV DESIGN
- ALTERNATE CHEMIN HV DESIGN
- MAVEN IUVS HV DESIGN
- > USEFUL DESIGN NUGGETS
 - ❖ ION PUMP DESIGN
 - HIGH PRECISION SUPPLY DESIGN
 - SILICON DETECTOR HV DESIGN
 - ❖ LOW POWER DESIGN
 - MARS HV SHIELDED DESIGNS

REGISTRATION:

PLEASE USE ATTACHED FORM QUESTIONS:

CONTACT ERIC YOUNG ERIC.YOUNG@NASA.GOV

No Course registration fee.

Catering services will be made available for Onsite attendees. Customary donation



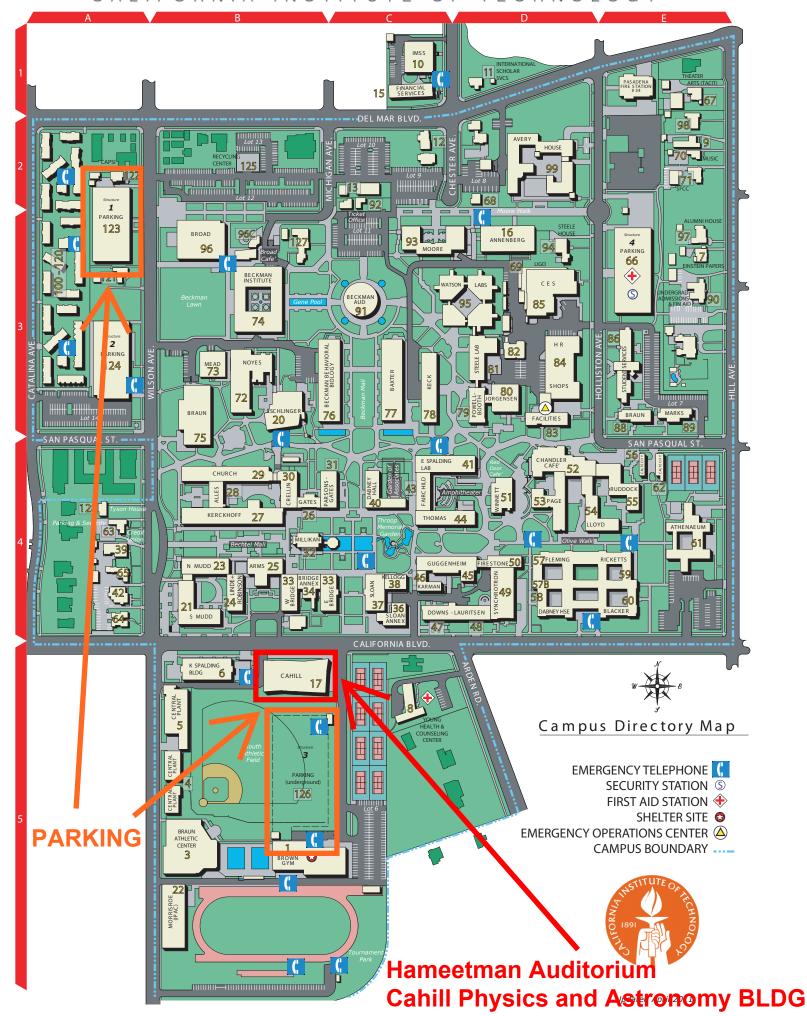






Start		
Time		
(PDT)	DAY 1 TOPIC (Monday October 22, 2012)	
0645	DOORS OPEN	
0730	INTRODUCTORY STUFF	
0745	GROUNDWORK FOR DISCUSSIONS	
0755	FEEDBACK FROM MEETING 1	
0805	SWOT HIGH POWER KLYSTRON HV DESIGN PART 1	
	(VORPERIAN & BOTVINNIK- JPL)	
0945	BREAK	
1000	SWOT HIGH POWER KLYSTRON HV DESIGN PART 2	
1100	QUESTIONS/DIALOGUE	
1130	LUNCH	
1230	FAST HV MODULATOR DESIGN PART 1	
	(URDIALES- SWRI)	
1400	BREAK	
1415	FAST HV MODULATOR DESIGN PART 2	
1445	QUESTIONS/DIALOGUE	
1515	LOW POWER HV MODULATOR DESIGN-LITE	
	(BATTEL)	
1625	QUESTIONS/DIALOGUE	
1645	ADJOURN	
1730	RECEPTION (VENUE IS TBD)	

Start Time	
(PDT)	DAY 2 TOPIC (Tuesday October 23, 2012)
0645	DOORS OPEN
0730	INTRODUCTORY STUFF
0740	CHEMIN HV DESIGN PART 1
	(PEREZ & RUITBERG- JPL)
0915	BREAK
0945	CHEMIN HV DESIGN PART 2
1020	ALTERNATE CHEMIN HV DESIGN
	(BATTEL)
1145	QUESTIONS/DIALOGUE (JOINT)
1200	LUNCH
1300	MAVEN IUVS HV DESIGN
	(BATTEL)
1445	BREAK- EARLY ADJOURN POINT
1500	"USEFUL DESIGN NUGGETS" (BATTEL)
	- ION PUMP HV DESIGN
	- BULK HV SUPPLY DESIGN
	- PHOTOMULTIPLIER PS DESIGN
	- SILICON DETECTOR PS DESIGN
	- MARS HV SHIELDED DESIGN
1415	QUESTIONS/DIALOGUE
1450	ADJOURN



Buildings by Name	Bldg No	Map Grid
1320 E San Pasqual (Caltech Y) 1350 E San Pasqual (Caltech Y Annex)	56	E4
263 S Chester (International Scholar Services)	62 11	D1
275 S Hill (Theater Arts (TACIT))	67	E1
287 S Hill (Rickenbaugh House) 293 S. Chester (Child Care Center)	98 12	C2-D2
295 S Hill	9	E2
305 S Hill (Music House) 315 S Hill (SFCC)	70 71	E2 E2
315 S Wilson (CAPSI-Educational Outreach)	122	A2
320 S Michigan (Campus Programs Annex) 330 S Chester (Campus Programs Office)	13 68	C2 D2
330 S Michigan Ave (Audio Visual Annex)	13A	C2
332 S Michigan (Campus Ticket Office) 345 S Hill (Alumni House)	92 97	C2 E2
345 S Michigan (Tolman-Bacher House)	127	B3
355 S Holliston (Steele House)	94 7	D3
363 S Hill (Einstein Papers House) 375 S Wilson (Prufrock House)	121	E3
505 S Wilson (Tyson House)	128	A4
515 S Wilson (Credit Union/Parking/Security) 525 S Wilson (U.S. Geological Survey)	63 39	A ²
535 S Wilson (Fitzhugh House)	65	Α
551 S Wilson (Investment Office) 565 S Wilson (Audit Svcs & Inst Compliance)	42 64	A4
Alles Laboratory	28	B4
Annenberg Ctr for Info Sci and Tech (IST)	16	D3 B4
Arms Laboratory Athenaeum	25 61	E4
Avery House	99	D2
Baxter Hall Beckman Auditorium	77 91	C3 C3 B3-C3
Beckman Behavioral Biology	76	B3-C3
Blacker House	74 60	B3 E4
Braun Athletic Center	3	BS
Braun House	88	E3
Braun Laboratories Bridge Annex	75 34	B3 B4
Bridge Laboratory - East	33E	B4
Bridge Laboratory - West Broad Café	33W 96C	B4 B3
Broad Center for the Biological Sciences	96	B3
Brown Gymnasium Cahill Ctr for Astroscience and Astrophysics	1 17	B5 B5
Catalina Graduate Housing	100-120	A2-A3
Central Engineering Services (CES) Central Plant	85 5	D3 B5
Chandler Dining Hall (Chandler Café)	52	D4
Chem Storage (Solvent Storage)	30A	B4 B4
Church Laboratory Cogeneration and Cooling Towers	29 4	B5
Crellin Laboratory	30	B4
Dabney Hall Dabney House	40 58	D4
Downs Laboratory	47	C4
Facilities/Facilities Management Financial Services	83 15	D3 C1
Firestone Laboratory	50	D4
Fleming House Gates Annex	57 26	D4 B4
Guggenheim Laboratory	45	C4
Human Resources/Facilities Management Shops	84 10	D3 C1
Information Management Systems & Svcs (IMSS) Jorgensen Laboratory	80	D3
Karman Laboratory	46	C4
Keck Laboratories Kellogg Radiation Laboratory	78 38	C3
Kerckhoff Annex	27A	B4
Kerckhoff Laboratories Lauritsen Laboratory	27 48	B4 D4
LIGO	69	D3
Linde+Robinson Laboratory	24	B4
Lloyd House Marks House	54 89	D4-E4
Mead Laboratory	73	B3
Millikan Library Moore Laboratory	32 93	B4 C3
Morrisroe Astroscience Laboratory (IPAC)	22	B5
Mudd Laboratories - North Mudd Laboratories - South	23 21	B4 B4
Noyes Laboratory	72	B3
Page House	53 124	D4 A3
Parking Structure 1 (South Wilson) Parking Structure 2 (Wilson Avenue)	123	A3
Parking Structure 2 (Wilson Avenue) Parking Structure 3 (California Avenue) Parking Structure 4 (Holliston Avenue)	126	B5
Parking Structure 4 (Holliston Avenue) Parsons-Gates Hall of Administration	66 31	E3 B4
Powell-Booth Laboratory	79	D3
Recycling Center Ricketts House	125 59	B2 E4
Ruddock House	55	E4
Satellite Utility Plant Schlinger Lab for Chemistry and Chem Engr	66B 20	E3 B3
Sherman Fairchild Library	43	C4
Sloan Annex	36	C4
Sloan Laboratory South Undergrad Housing Complex Basement	37 57B	C4 D4
South Undergrad Housing Complex Basement Spalding, Eudora (Eudora Spalding Laboratory) Spalding, Keith (Keith Spalding Building)	41	C4
Spalding, Keith (Keith Spalding Building) Steele Laboratory	81	B5 D3
Student Activities Center	57B	D4
Student Services, Center for Synchrotron Laboratory	86 49	E3
Thomas Laboratory	44	C4
Transportation & Grounds Operations Undergraduate Admissions & Financial Aid	82 90	D3 E3
Watson Laboratories	95	C3-D3
Winnett Center Young Health and Counseling Center	51 8	D4 C5
Today redictions counseling center		

Functions & Places	Bldg No or Map Grid
24-Hour Security	66
Administration Admissions Office, Graduate	31 86
Admissions Office, Undergraduate	90
Alumni House	97
Amphitheater	C-4
Athletics (Indoors)	2-3
Athletics (Outdoors-South Athletic Fields)	B5-C5
Auditorium (Annenberg Auditorium) Auditorium (Baxter Lecture Hall)	16 77
Auditorium (Beckman Auditorium)	91
Auditorium (Beckman Institute Auditorium)	74
Auditorium (Hameetman Auditorium)	17
Auditorium (Lees-Kubota Lecture Hall)	45
Auditorium (Norman Davidson Lecture Hall)	27
Auditorium (Ramo Auditorium)	77
Auditorium (Rock Auditorium)	96
Auditorium (Sharp Lecture Hall) Auditorium (Sturdivant Lecture Hall)	72
Bechtel Mall	B4
Beckman Lawn	B3
Beckman Mall	C3
Bookstore	51
Caltech Credit Union (CEFCU)	63
Campus & Community Relations	32
Campus Programs Office	92
CAPSI (Caltech Precollege Science Initiative) Card Services	98 51
Career Development Center	86
Corporate Relations	32
Development & Institute Relations	32
Diversity, Center for	86
Diversity, Center for Division Office (Biology)	27
Division Office (Chemistry & Chem Engineering)	30
Division Office (Engineering & Applied Science)	44
Division Office (Geological & Planetary Sciences)	25 77
Division Office (Humanities & Social Sciences) Division Office (Physics, Math & Astronomy)	33
Employment	84
Facilities Management	83
Faculty Club (Atheneum)	61
Faculty, Officers of the	31
Fellowships and Study Abroad	86
Financial Aid	90
Food & Dining Services (Broad Café)	96C 52
Food & Dining Services (Chandler Café) Food & Dining Services (Convenience Store)	52
Food & Dining Services (Convenience Store)	51
Garden of Associates	C4
Gene Pool (Fountain)	B3
Governmental Relations	31
Graduate Office	86
Graphic Resources	6
Health Center	8
Human Resources Humanities Reading Room	84 40
IMSS Help Desk	86
International Scholar Services	11
International Student Programs	86
Library (Astrophysics)	17
Library (Geology & Planetary Sciences) Library (Humanities Reading Room)	23
Library (Humanities Reading Room)	40
Library (Millikan Library)	32
Library (Sherman Fairchild Library)	43 32
Marketing & Communications Moore Walk	C2-D2
Olive Walk	D4-E4
Parking Office	63
Performing and Visual Arts	67/70
Post Office/Mail Services	6
Recreation	3
Registrar	86
Safety Office	6
Security Office Staff & Faculty Consulting Center (SFCC)	63 71
Student Activities Center	57B
Student Services	86
Student-Faculty Programs	86
Tech Express	54
Theater Arts (TACIT)	67
Throop Memorial Gardens	C4
Ticket Office	92
Tournament Park	C5 86
Undergraduate Dean's Office Young Health & Counseling Center	86
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3	Bldg No	Buildings by Number	Map Grid
4 Cogeneration and Cooling Towers 5 Sentral Plant 6 Spalding, Keith (Keith Spalding Building) 7 363 S Hill (Einstein Papers House) 8 Young Health and Counseling Center 9 2955 S Hill Management Systems & vocs (IMSS) 11 Information Annagement Systems & vocs (IMSS) 12 S Similar Management Systems & vocs (IMSS) 13 320 S Michigan (Campus Programs Annex) 14 S S Heester (International Scholar Svcs) 15 Financial Services 16 Annenberg Ctr for Info Sci and Tech (IST) 17 Cahill Ctr for Astroscience and Astrophysics 18 S S S Heester (Chem and Chemical Engr B S S S S S S S S S S S S S S S S S S		Brown Gymnasium	B5
5 Central Plant 8 6 Spalding, Keith (Keith Spalding Building) 8 7 363 S Hill (Einstein Papers House) EE 8 Young Health and Counseling Center CC 9 295 S Hill Company 1 10 Information Management Systems & Svcs (IMSS) CI 1 21 20 S Chester (International Scholar Svcs) CI 13 A 330 S Michigan (Audio Visual Annex) CC 15 Financial Services CC 16 Annenberg Ctr for Info Sci and Tech (IST) Do 17 Cahill Ctr for Astroscience and Astrophysics B 20 Schlinger Lab for Chem and Chemical Engr B 21 Morrisco Astroscience Laboratory (IPAC) B 22 Morrisco Astroscience Laboratory B 23 Mudi Laboratories - North B 24 Cark Exerckhoff Annex B 25 Cactes Annex B 26 Cates Annex B 27 Kerckhoff Laboratory B 30 Crellin Laboratory B 31 Parsons-Gates Hall of Administration B 32 English S Wilson (Inv			
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8 Young Health and Counseling Center 9 295 S Hill 10 Information Management Systems & Svcs (IMSS) 11 266 S Chester (International Scholar Svcs) 11 2 293 S Chester (Child Care Center) 12 293 S Chester (Child Care Center) 13 330 S Michigan (Campus Programs Annex) 13 330 S Michigan (Campus Programs Annex) 14 330 S Michigan (Campus Programs Annex) 15 340 Michigan (Campus Programs Annex) 16 37 Cahill Ctr for Info Sci and Tech (IST) 17 Cahill Ctr for Astroscience and Astrophysics 18 20 Schlinger Lab for For Info Sci and Tech (IST) 18 21 Mudd Laboratories - South 29 Mudd Laboratories - South 20 Mudd Laboratories - North 21 Mudd Laboratories - North 22 Mudd Laboratories - North 23 Mudd Laboratories - North 24 Linder-Robinson Laboratory 25 Arms Laboratory 26 Gates Annex 27 Kerckhoff Laboratories 28 Alles Laboratory 29 Alles Laboratory 20 Chem Storage (Salvent Storage) 20 Church Laboratory 21 Millikan Library 21 Millikan Library 22 Millikan Library 23 Millikan Library 24 Millikan Library 25 Millikan Library 26 Salvent Storage (Salvent Storage) 27 Millikan Library 28 Ales Laboratory - West 29 Millikan Library 30 Millikan Library 31 Millikan Library 32 Millikan Library 33 Millikan Library 34 Millikan Library 35 Solan Annex 36 Sloan Annex 37 Sloan Laboratory 38 Kellogg Radiation Laboratory 39 S25 S Wilson (Urwestment Office) 40 Dabney Hall 41 Spalding, Eudora (Eudora Spalding Laboratory) 41 Comman Laboratory 42 S51 S Wilson (Urwestment Office) 43 Sherman Falchfull Ubrary 44 Chambar Laboratory 45 Minnett Center 46 Marman Laboratory 47 Downs Laboratory 48 Laurisen Laboratory 49 Synchrotron Laboratory 40 Dabney Hall 40 Dabney Hall 50 Salvent Millian Laboratory 51 Minnett Center 52 Chandler Dining Hall (Chandler Café) 53 Page House 54 Lloyd House 55 Ruddock House 66 Basker House 67 Jasch Hall Specker House 68 Backern House 69 Backer House 60 Backer House 60 Backer House 61 Lion 61 Lion 62 Jasch Shill (Specker) 63 Jasch Hall Specker 64 Salven House 65 S5 Wilson (Campus Programs Office) 65 Lion 66 Backern Deviction of Campus Prog		Spalding, Keith (Keith Spalding Building)	B5
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11		295 S Hill	E2
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Buildings by Number

2012 High Voltage Power Supply Design Workshop October 22-23, 2012

HOTEL ACCOMODATIONS

Hotels/Motels in walking distance of campus:

Vagabond Inn

1203 E. Colorado Blvd. Pasadena, CA 91106 (626) 449-3170

Saga Motor Hotel

1633 E. Colorado Blvd. Pasadena, CA 91106 (626) 795-0431

Hotels near Old Town Pasadena (2-5 miles from campus):

Courtyard by Marriott (ask for Caltech rate)

180 N. Fair Oaks Ave Pasadena, CA 91103 (626) 403-7600

Hilton Pasadena (shuttle service to campus, ask for Caltech rate)

168 S. Los Robles Ave. Pasadena, CA 91101 (626) 577-1000

Sheraton Pasadena Hotel (shuttle service to campus, ask for Caltech rate)

303 E. Cordova St. Pasadena, CA 91101 (626) 449-4000

The Westin Pasadena (shuttle service to campus, ask for Caltech rate)

191 N. Los Robles Ave. Pasadena, CA 91101 (626) 304-1444

Hotels within a short distance to Caltech (2-3 miles):

Best Western Pasadena Inn

3570 E. Colorado Blvd. Pasadena, CA 91107 (626) 796-9100

Best Western Pasadena Royale

3600 E. Colorado Blvd. Pasadena, CA 91107 (626) 793-0950

Comfort Inn

2462 E. Colorado Blvd. Pasadena, CA 91107 (626) 405-0811

Holiday Inn Express

3500 E. Colorado Blvd. Pasadena, CA 91107 (626) 792-9213

Ramada Pasadena

2156 E. Colorado Blvd. Pasadena, CA 91107 (888) 551-5543

The Langham Huntington Hotel and Spa (shuttle service to campus, ask for Caltech rate) 1401 S. Oak Knoll Ave.
Pasadena, CA 91106
(626) 568-3900

Hotels within the greater Pasadena area:

Arroyo Vista Inn Bed and Breakfast (ask for Caltech rate)

335 Monterey Road South Pasadena, CA 91030 (888) 927-7696/(323) 478-7300

Comfort Inn, Eagle Rock (Caltech rate)

2300 West Colorado Blvd. Los Angeles, CA 90041 (323) 256-1199

Doubletree Hotel, Monrovia-Pasadena (shuttle service to campus, ask for Caltech rate)

924 West Huntington Drive Monrovia, CA 91016 (626) 357-1900

Embassy Suites Hotel, Arcadia (ask for Caltech rate)

211 E. Huntington Drive Arcadia, CA 91006 (626) 445-8525

Residence Inn by Marriott, Arcadia-Pasadena

321 E. Huntington Drive Arcadia, CA 91006 (626) 446-6500

Spring Hill Suites Pasadena Arcadia

Spring Hills Suites, Arcadia 99 North 2nd Avenue Arcadia, California 91006 USA (626) 821-5400

Hampton Inn, Arcadia

311 East Huntington Drive Arcadia, California 91006 USA (626) 574-5600

Hilton Garden Inn, Arcadia

199 North 2nd Avenue Arcadia, California 91006 USA (626) 574-6900

Extended Stay America, Arcadia

401 East Santa Clara Street Arcadia, California 91006 USA (626) 446-6422

Santa Anita Inn, Arcadia

130 West Huntington Drive Arcadia, California 91006 USA (626) 446-5211

GETTING DIRECTIONS TO THE CALTECH CAMPUS

From Los Angeles International Airport:

Driving Directions: Take Sepulveda Blvd. south to the Glenn Anderson Fwy (105) east to the Harbor Fwy (110) north to the Pasadena Fwy, which becomes the Arroyo Parkway. *Or:*

Take the San Diego Fwy (405) north to the Santa Monica Fwy (10) east to the Harbor Fwy (110) north to the Pasadena Fwy, which becomes the Arroyo Parkway.

Then:

Take the Arroyo Parkway straight ahead (north); turn right (east) on California Blvd. Proceed approximately one and a quarter miles. The Caltech campus will be on your left. Turn left (north) at Hill Ave. Turn left (west) at San Pasqual St. Turn right (north) onto Holliston Ave. Proceed to the Holliston Parking Structure on your right at 370 S. Holliston Ave. (Building #66 on the campus map) to register your car and receive instructions on where to park.

Shuttle service: To get a shuttle, exit the baggage claim area and look for the ORANGE overhead "SHARED RIDE VANS" sign. Tell the driver you are going to Caltech; if you are asked for an address or intersection, Holliston Ave. and Del Mar Blvd. is near the southeast corner of campus (see the campus map for other streets).

From the Bob Hope Airport (Burbank):

Driving Directions: Take the Golden State Fwy (Interstate 5) south to the Ventura Fwy (134) east to the Foothill Fwy (210) east. Exit at Hill Avenue. Turn right (south) onto Hill. Take Hill south to San Pasqual St. and make a right (west). Turn right (north) onto Holliston Ave.

Shuttle service: Tell the driver you are going to Caltech; if you are asked for an address or intersection, Holliston Ave. and Del Mar Blvd. is near the southeast corner of campus (see the campus map for other streets).

From Ontario Airport:

Driving Directions: Take the San Bernardino Fwy (10) west to Orange Freeway (57) north to the Foothill Fwy (210); take the 210 west to Pasadena. Exit at Hill Ave; turn left (south) on Hill. Take Hill south to San Pasqual St. and make a right (west). Turn right (north) onto Holliston Ave.

Shuttle service: Tell the driver you are going to Caltech; if you are asked for an address or intersection, Holliston Ave. and Del Mar Blvd. is near the southeast corner of campus (see the campus map for other streets).

Driving Directions:

Caltech is easily accessible from both the 110 (Harbor) Freeway (southwest of campus) and the 210 (Foothill) Freeway (north of campus).

If you're taking the 110 freeway, follow the freeway north until it ends (where it becomes the Arroyo Parkway). Take the Arroyo Parkway straight ahead (north); turn right (east) on California Blvd. Proceed approximately one and a quarter miles. The Caltech campus will be on your left-hand side. Turn left (north) at Hill Ave. Turn left (west) at San Pasqual St. Turn right (north) onto Holliston Ave. Proceed to the Holliston Parking Structure on your right at 370 S. Holliston Ave. (Building #66 on the campus map) to register your car.

If you're taking the 210 freeway, exit at Hill Avenue; turn south on Hill. Take Hill south to San Pasqual St. and make a right (west). Turn right (north) onto Holliston Ave.

By Public Transportation:

Transportation Options

Visit our transit guide link. The transit guide site is intended especially for the Caltech community. You will find Caltech-specific information on everything from transit subsidies to bus routes to make your trip cheaper and faster on public transit

Downtown Los Angeles to Pasadena: The MTA 401 Express bus can be boarded on Spring Street in downtown Los Angeles, approximately three blocks west of Union Station. Exit in Pasadena at Colorado and Wilson; Caltech is approximately three blocks south.

The MTA 485 bus boards at the Busway off of Alameda, in front of Union Station. Exit at Lake and California in Pasadena and walk east to Caltech.

Caltech to JPL: Board the westbound MTA 177 bus on California Blvd. Discounted monthly and weekly bus passes, as well as student passes, are available through both Foothill Transit and MTA. Bus and transit maps are not available in bookshops or other local businesses, but may be picked up at the Patsaouras Transit Plaza (behind Union Station) in Los Angeles or in the Keith Spalding Building on the Caltech campus.

Bus and Rail Trip Planner

Detailed bus and rail itineraries for the entire Los Angeles area, including Pasadena, can be planned on the TranStar website.